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(SE). HÖÖK, Fredrik [SE/SE]; Stenströmsgatan 4, S-416 56 Göteborg (SE).

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(74) Agent: NIKLAS, Forslund; Bergenstråhle & Lindvall AB, Box 17704, S-118 93 Stockholm (SE).

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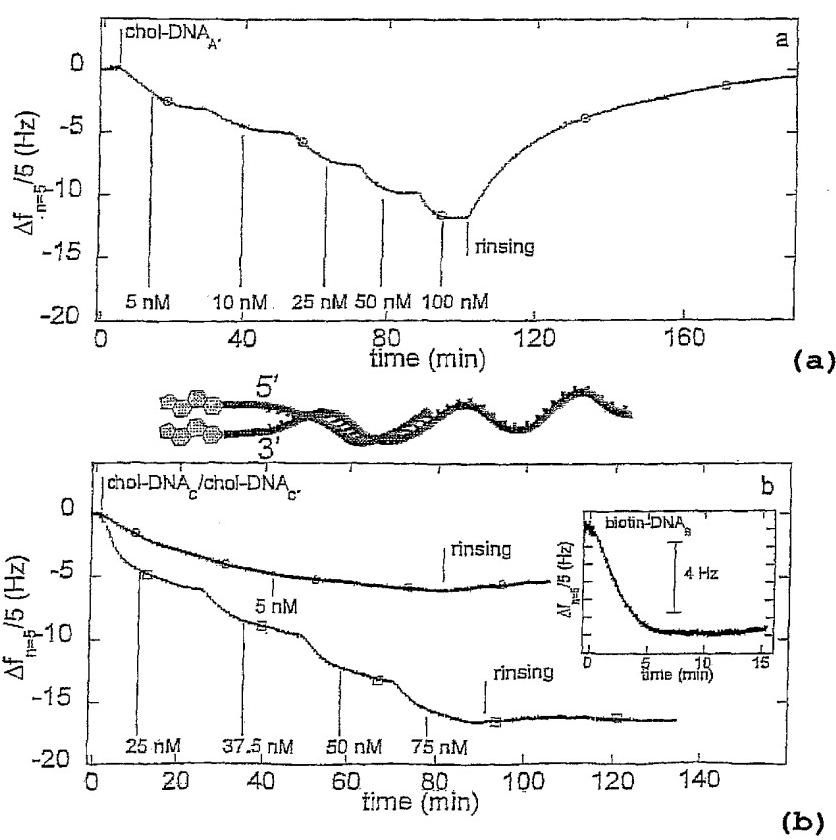
(71) Applicant (for all designated States except US): LAYER-LAB AKTIEBOLAG [SE/SE]; Stena Center 1 D, S-412 92 Göteborg (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): PFEIFFER, Indriati [SE/SE]; Ängemarken 11 C, S-413 20 Göteborg

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(54) Title: OLIGONUCLEOTIDES RELATED TO LIPID MEMBRANE ATTACHMENTS



**(57) Abstract:** Oligonucleotide structures are provided that are capable of forming more stable bonds to a lipid membrane and thereby generate an improved control of the process whereby oligonucleotide linkers are introduced to lipid membranes. Methods of forming lipid membrane oligonucleotide attachments are provided including lipid vesicles. The oligonucleotides typically comprise at least two hydrophobic anchoring moieties capable of being attached to a lipid membrane. Said moieties may be attached at the terminal ends of an oligonucleotide or, in the case of a first and second strand forming a duplex, at the same terminal end one of the strands other end not being part of the duplex leaving it free to hybridize to additional strands. The lipid vesicles attached with the oligonucleotide can be used in biosensors and may contain membrane proteins.



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